

FIG. 1

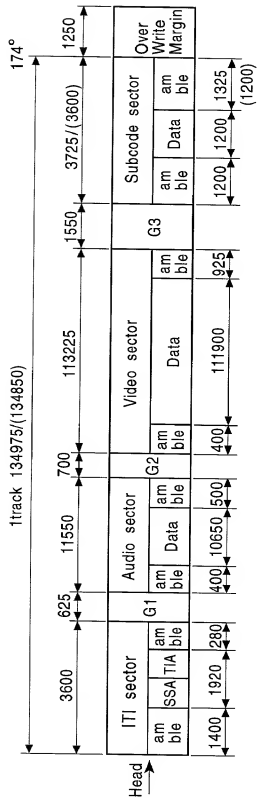


FIG. 2

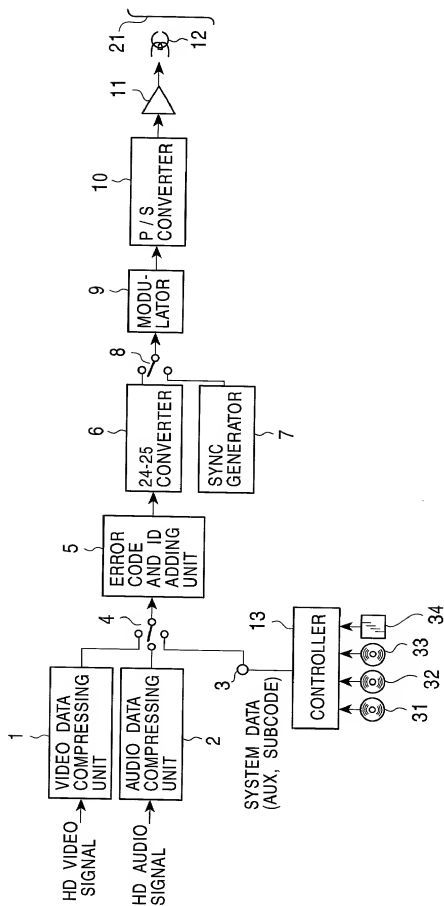


FIG. 3

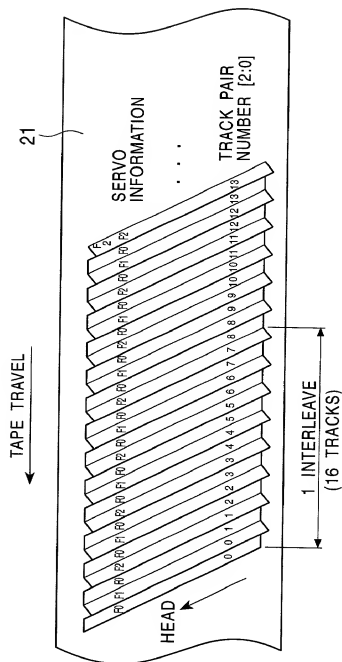


FIG. 4

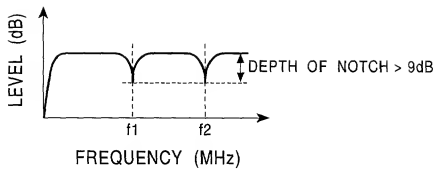


FIG. 5

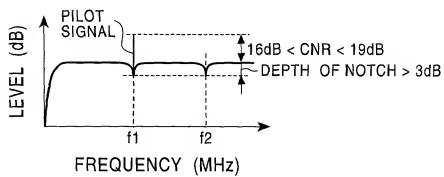


FIG. 6

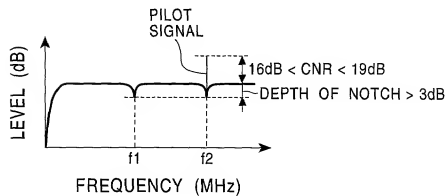


FIG. 7

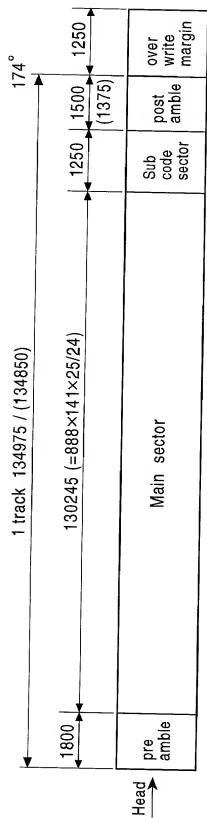


FIG. 8

RUN PATTERN	Codeword	
	MSB	LSB
PATTERN A	0 0 0 1 1 0 0 0 1 1 1 0 0 0 0 0 1 1 1 0 0 0 1 1	
PATTERN B	1 1 1 0 0 0 1 1 0 0 0 1 1 1 1 0 0 0 1 1 1 0 0	

FIG. 9

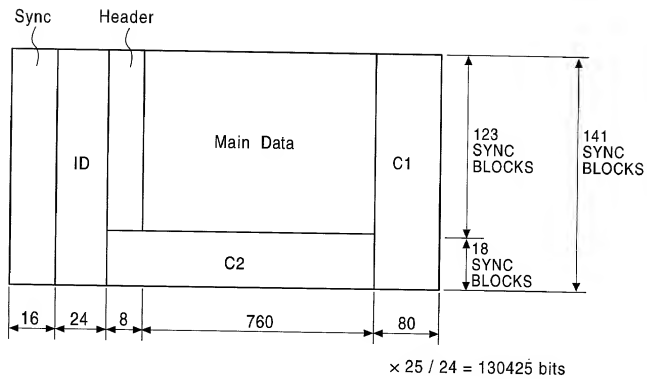


FIG. 10A



FIG. 10B

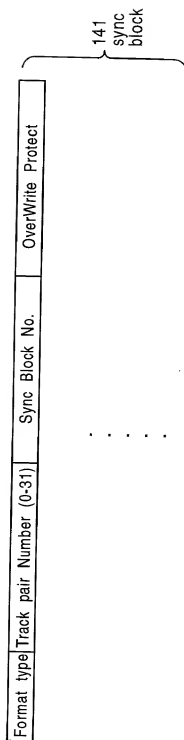


FIG. 11

TYPES OF MAIN DATA DETAILS			DETAILS				
b7	b6	b5	b4	b3	b2	b1	b0
0	PES-VIDEO		F/P	Continuity counter			
1	PES-AUDIO		F/P	Continuity counter			
2	SEARCH		V/A	Search speed			Res
3	AUX		AUX mode			Reserved	
4	TS-1H		Jump Flag		Time Stamp		
5	TS-2H		Continuity counter				
6	NULL		Reserved				
7	Reserved		Reserved				

P/F: Partial/Full
V/A: video/audio

FIG. 12

SEARCH SPEED

- 0 : RESERVED
- 1 : 4-TIME SPEED
- 2 : 8-TIME SPEED
- 3 : RESERVED
- 4 : 16-TIME SPEED
- 5 : 32-TIME SPEED
- 6-7 : RESERVED

FIG. 13

AUX MODE

- 0 : AUX-V (RELATED TO VIDEO)
- 1 : AUX-A (RELATED TO AUDIO)
- 2 : PES-PSI 1 (PSI 1ST HALF)
- 3 : PES-PSI 2 (PSI 2ND HALF)
- 4 : SYSTEM (EDIT INF ETC.)
- 5-7 : RESERVED

FIG. 14

KEY WORD	CLASS	DESCRIPTION
0	SUB	TTC
1	SUB	Binary Group
2	SUB	PART No.
3	SUB	CHAPTER START
4	SUB	ATNF (ATN+FLG)
5	SUB	REC data
6	SUB	REC time
7	SUB	Reserved
8	RES.	Reserved
:	RES.	Reserved
63	RES.	Reserved

FIG. 15

KEY WORD	CLASS.	DESCRIPTION
64	AUD.	AUD-FRAME
65	AUD.	Reserved
66	AUD.	Reserved
67	AUD.	Reserved
68	VID.	VID-FRAME
69	VID.	Reserved
70	VID.	Reserved
71	VID.	Reserved
72	A/V	UMID
73	A/V	Reserved
74	A/V	Reserved
75	A/V	Reserved
76	A/V	ASCII character message
77	A/V	shift JIS message
78	A/V	compressed data (text)
79	A/V	compressed data (binary)
80	SYS.	ECCTB
81	SYS.	Reserved
82	SYS.	Reserved
83	SYS.	Reserved
84	RES.	Reserved
:	RES.	Reserved
127	RES.	Reserved

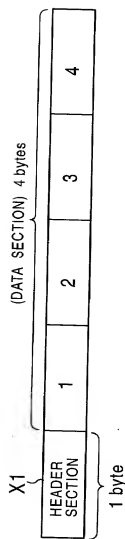


FIG. 16A

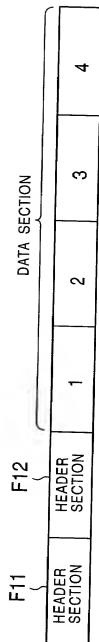


FIG. 16B

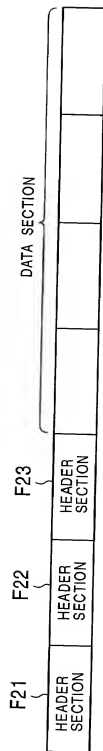


FIG. 16C

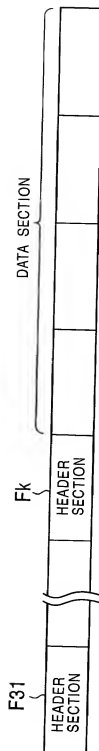


FIG. 16D

FIG. 17A

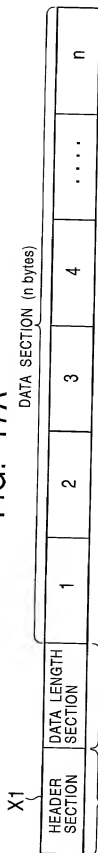


FIG. 17B

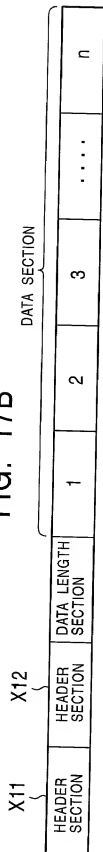


FIG. 17C

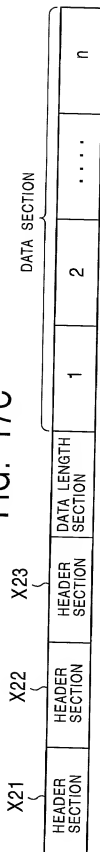


FIG. 17D

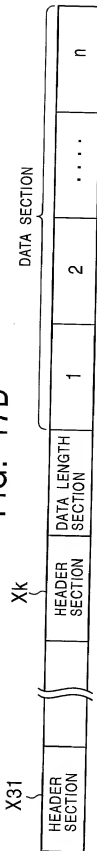


FIG. 18A

b7	KEY WORD EXTENSION	0: NOT EXTENDED 1: EXTENDED
b6	VALUE LENGTH	0: FIXED LENGTH 1: VARIABLE LENGTH
b5-b0	KEY WORD NO.	0~63, DEPENDING ON VALUE LENGTH

FIG. 18B

b7	KEY WORD EXTENSION	0: NOT EXTENDED 1: EXTENDED
b6-b0	KEY WORD NO.	0~127, DEPENDING ON VALUE LENGTH

FIG. 19

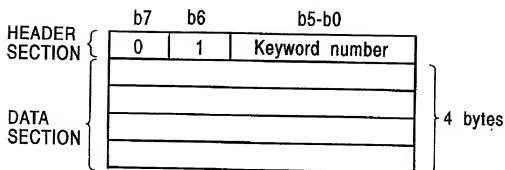


FIG. 20

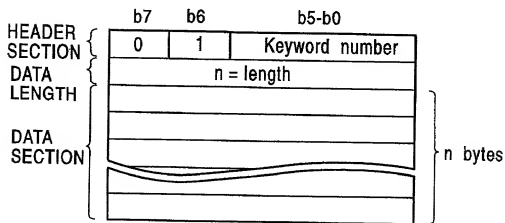


FIG. 21

sync	ID	SB Header	AUX DATA	171Kbps	C1 9.0 %	(NUMBER OF SBs) (%)	
			VIDEO DATA	25.764Kbps			
				AUDIO DATA			399Kbps
				SEARCH DATA			1,710Kbps
			C2				
						7.5 (0.5%)	
						113.0 (80.1%)	
						1.75 (1.2%)	
						7.5 (5.3%)	
						18 (12.8%)	
						141 (100%)	

FIG. 22

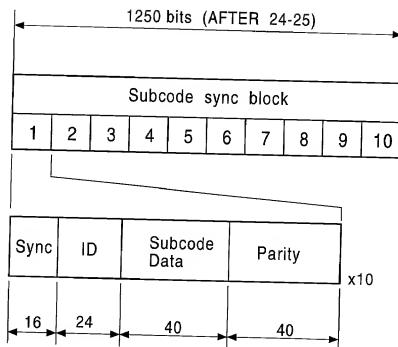


FIG. 23

ID0		ID1		ID2
b7-b5	b4-b0	b7-b4	b3-b0	
F_type	Track pair Num (0-31)	Reserved	SB No. (0)	OverWrite Protect
F_type	Track pair Num (0-31)	Reserved	SB No. (1)	OverWrite Protect
F_type	Track pair Num (0-31)	Reserved	SB No. (2)	OverWrite Protect
F_type	Track pair Num (0-31)	Reserved	SB No. (3)	OverWrite Protect
F_type	Track pair Num (0-31)	Reserved	SB No. (4)	OverWrite Protect
F_type	Track pair Num (0-31)	Reserved	SB No. (5)	OverWrite Protect
F_type	Track pair Num (0-31)	Reserved	SB No. (6)	OverWrite Protect
F_type	Track pair Num (0-31)	Reserved	SB No. (7)	OverWrite Protect
F_type	Track pair Num (0-31)	Reserved	SB No. (8)	OverWrite Protect
F_type	Track pair Num (0-31)	Reserved	SB No. (9)	OverWrite Protect

FIG 24A

SUBCODE DATA	
1	ATNF (ATN + FLG)
2	TTC
3	REC DATE
4	REC TIME
5	ATNF (ATN + FLG)
6	TTC
7	REC DATE
8	REC TIME
9	ATNF (ATN + FLG)
10	TTC

FIG 24B

SUBCODE DATA	
1	ATNF (ATN + FLG)
2	TTC
3	PART No.
4	CHAPTER START
5	ATNF (ATN + FLG)
6	TTC
7	PART No.
8	CHAPTER START
9	ATNF (ATN + FLG)
10	TTC

ID0													ID1				ID2	User Tape		Pre Rec Tape				
b7	b6	b5	b4	b3	b2	b1	b0	b7	b6	b5	b4	b3-0	ID1		ID2	DATA SECTION 1 PACK (5B)	DATA SECTION 1 PACK (5B)	DATA SECTION 1 PACK (5B)						
AP3													LSB		BF		SB No. (0)		ID parity	Option Area	Option Area	Option Area		
Absolute track No. (23bi)													MSB		SB No. (1)		ID parity							
MSB													SB No. (2)		ID parity									
AP3													LSB		BF		SB No. (3)		ID parity					
Absolute track No. (23bi)													MSB		SB No. (4)		ID parity	TTC	TTC	TTC	TTC	TTC		
AP3													LSB		BF		SB No. (5)		ID parity	TTC	TTC	TTC	TTC	TTC
Absolute track No. (23bi)													MSB		SB No. (6)		ID parity	Option Area	Option Area	Option Area	Option Area	Option Area		
MSB													SB No. (7)		ID parity	Option Area	Option Area	Option Area	Option Area	Option Area	Option Area			
AP3													LSB		BF		SB No. (8)		ID parity	TTC	TTC	TTC	TTC	
Absolute track No. (23bi)													MSB		SB No. (9)		ID parity	TTC	TTC	TTC	TTC	TTC		
Absolute track No. (23bi)													MSB		SB No. (10)		ID parity	TTC	TTC	TTC	TTC	TTC		
AP3													LSB		BF		SB No. (11)		ID parity	TTC	TTC	TTC	TTC	
Absolute track No. (23bi)													MSB		SB No. (12)		ID parity	TTC	TTC	TTC	TTC	TTC		
AP3													LSB		BF		SB No. (13)		ID parity	TTC	TTC	TTC	TTC	
Absolute track No. (23bi)													MSB		SB No. (14)		ID parity	TTC	TTC	TTC	TTC	TTC		
AP3													LSB		BF		SB No. (15)		ID parity	TTC	TTC	TTC	TTC	
Absolute track No. (23bi)													MSB		SB No. (16)		ID parity	TTC	TTC	TTC	TTC	TTC		
AP3													LSB		BF		SB No. (17)		ID parity	TTC	TTC	TTC	TTC	
Absolute track No. (23bi)													MSB		SB No. (18)		ID parity	TTC	TTC	TTC	TTC	TTC		
AP3													LSB		BF		SB No. (19)		ID parity	TTC	TTC	TTC	TTC	
Absolute track No. (23bi)													MSB		SB No. (20)		ID parity	TTC	TTC	TTC	TTC	TTC		
AP3													LSB		BF		SB No. (21)		ID parity	TTC	TTC	TTC	TTC	
Absolute track No. (23bi)													MSB		SB No. (22)		ID parity	TTC	TTC	TTC	TTC	TTC		
AP3													LSB		BF		SB No. (23)		ID parity	TTC	TTC	TTC	TTC	
Absolute track No. (23bi)													MSB		SB No. (24)		ID parity	TTC	TTC	TTC	TTC	TTC		
AP3													LSB		BF		SB No. (25)		ID parity	TTC	TTC	TTC	TTC	
Absolute track No. (23bi)													MSB		SB No. (26)		ID parity	TTC	TTC	TTC	TTC	TTC		
AP3													LSB		BF		SB No. (27)		ID parity	TTC	TTC	TTC	TTC	
Absolute track No. (23bi)													MSB		SB No. (28)		ID parity	TTC	TTC	TTC	TTC	TTC		
AP3													LSB		BF		SB No. (29)		ID parity	TTC	TTC	TTC	TTC	
Absolute track No. (23bi)													MSB		SB No. (30)		ID parity	TTC	TTC	TTC	TTC	TTC		
AP3													LSB		BF		SB No. (31)		ID parity	TTC	TTC	TTC	TTC	
Absolute track No. (23bi)													MSB		SB No. (32)		ID parity	TTC	TTC	TTC	TTC	TTC		
AP3													LSB		BF		SB No. (33)		ID parity	TTC	TTC	TTC	TTC	
Absolute track No. (23bi)													MSB		SB No. (34)		ID parity	TTC	TTC	TTC	TTC	TTC		
AP3													LSB		BF		SB No. (35)		ID parity	TTC	TTC	TTC	TTC	
Absolute track No. (23bi)													MSB		SB No. (36)		ID parity	TTC	TTC	TTC	TTC	TTC		
AP3													LSB		BF		SB No. (37)		ID parity	TTC	TTC	TTC	TTC	
Absolute track No. (23bi)													MSB		SB No. (38)		ID parity	TTC	TTC	TTC	TTC	TTC		
AP3													LSB		BF		SB No. (39)		ID parity	TTC	TTC	TTC	TTC	
Absolute track No. (23bi)													MSB		SB No. (40)		ID parity	TTC	TTC	TTC	TTC	TTC		
AP3													LSB		BF		SB No. (41)		ID parity	TTC	TTC	TTC	TTC	
Absolute track No. (23bi)													MSB		SB No. (42)		ID parity	TTC	TTC	TTC	TTC	TTC		
AP3													LSB											

FIG. 26

bit	FLG	DESCRIPTION
b7	I	Index ID
b6	—	Reserved
b5	P	PP ID (still/motion Picture change Point)
b4	EH	Edit Header ECC block is here
b3	↑	Edit Picture Header Offset (0-15)
b2	EPO	
b1	↓	
b0	↓	

FIG. 27

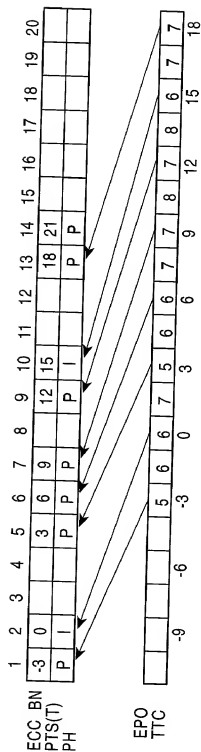


FIG. 28

DESCRIPTION	NUMBER OF BYTES	ECCTB	DATA
ECCTB Packet Header	1	○	80
Length	1	○	74
ATNF (ATN + FLG)	4	○	
upper digits of Track pair Number	3	○	
TTC	4	○	
Binary group	4	○	
date/time original	8	○	
last modify	8	○	
generation Number	1	○	
FLG (EPO + FLG) history	10	○	
EDIT HEADER MAP	12	—	
Header Table Number	1	○	
1st Edit Header			
DATA - H (4bits)	0.5	○	
Position (TRK/SB)	0.5	○	
VBV	2	○	
last Edit Header			
DATA - H (4bits)	0.5	○	
Position (TRK/SB)	0.5	○	
VBV	2	○	
last Header			
DATA - H (4bits)	0.5	○	
Position (TRK/SB)	1.5	○	
Edit status (representing edit point)	1	○	
ECC SB MAP	10	—	
PES-VIDEO	1.5	○	
PES-AUDIO	1.5	○	
SEARCH	1	○	
AUX	1.5	○	
TS-1H	1.5	○	
TS-2H	1.5	○	
NULL	1.5	○	
SEARCH DATA MODE	1	○	
video mode	4	○	
audio mode	3	○	
Reserved (for ECCTB)	19	○	
TOTAL		93	

upper digits of Track pair Number (TTC Track Phase)

record subcode data in amount corresponding to 10 frames (100 tracks)

FIG. 29

AUDIO MODE

AUDIO FRAME SIZE	3bit
SAMPLE FREQ	3bit
QUANTIZATION	3bit
AUDIO CHANNEL MODE	3bit
AUDIO COMP MODE	3bit
AUDIO CONTROL MODE	8bit
<hr/>	
TOTAL	23bit

FIG. 30

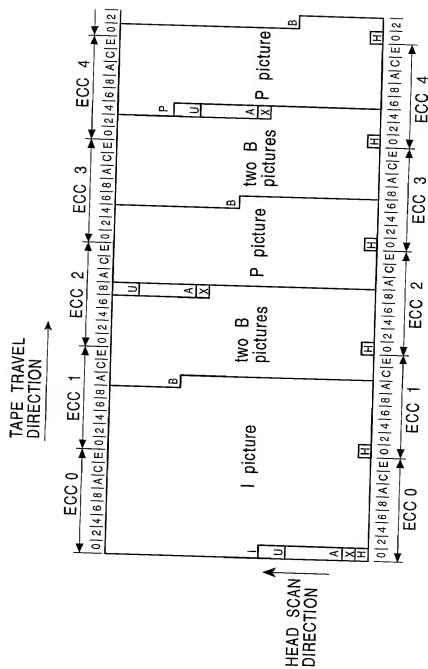
VIDEO MODE

VIDEO RATE	24bit
VIDEO FRAME FREQ	3bit
VIDEO MODE	5bit
<hr/>	
TOTAL	23bit

FIG. 31

DATA-H (4bits)	
0: no Picture	8: RES-END
1: I-Picture	9: AUD
2: B1-Picture	10: AUX
3: B2-Picture	11: Reserved
4: P-Picture	12: Reserved
5: Copy Picture	13: Reserved
6: V-END	14: Reserved
7: A-END	15: Reserved

FIG. 32



The diagram illustrates the relationship between tape travel, head scan, and recording end process. The vertical axis represents 'HEAD SCAN' (1 to 18), and the horizontal axis represents 'TAPE TRAVEL' (ECC 0 to ECC 10). The 'REC END PROC.' is indicated by a double-headed arrow at the top.

The diagram shows the sequence of data blocks (I, P, B pictures) and error correction codes (ECC) across 18 head scans. The 'main area' is defined by a dashed line, and the 'subcode' area is shown at the bottom.

The sequence of data blocks and ECC codes is as follows:

- Head Scan 1: I picture, ECC 0
- Head Scan 2: two B pictures, ECC 1
- Head Scan 3: P picture, ECC 2
- Head Scan 4: two B pictures, ECC 3
- Head Scan 5: P picture, ECC 4
- Head Scan 6: two B pictures, ECC 5
- Head Scan 7: P picture, ECC 6
- Head Scan 8: two B pictures, ECC 7
- Head Scan 9: P picture, ECC 8
- Head Scan 10: two B pictures, ECC 9
- Head Scan 11: P picture, ECC 10
- Head Scan 12: two B pictures, ECC 11
- Head Scan 13: P picture, ECC 12
- Head Scan 14: two B pictures, ECC 13
- Head Scan 15: P picture, ECC 14
- Head Scan 16: two B pictures, ECC 15
- Head Scan 17: P picture, ECC 16
- Head Scan 18: two B pictures, ECC 17

The 'main area' is defined by a dashed line, and the 'subcode' area is shown at the bottom. The 'REC END PROC.' is indicated by a double-headed arrow at the top.

FIG. 34

DESCRIPTION	NUMBER OF BYTES	U/X	ECCTB	Sub- Code	REMARKS
ATNF (ATN + FLG)	4		○	○	
EXTENDED Track Pair Number	3		○		UPPER DIGITS OF TRACK PAIR NUMBER
TTC	4	○	○	○	
Binary group	4	○	○	○	
data/time original	8	○	○		
last modify	8	○	○	○	
generation Number	1	○	○		
FLG (EPO+FLG) history	10		○		IN AMOUNT CORRES- PONDING TO 10 FRAMES
EDIT HEADER MAP	10		○		
ECC SB MAP	12		○		
Closed caption	10	○			4 byte/Frame
SEARCH DATA mode	1		○		
video mode	4	○	○		
audio mode	3	○	○		
Video Edit info	40	○			
Vidio Frame aux	40	○			
Audio Edit info	40	○			
Audio Frame aux	40	○			
UMID	65	○			
MESSAGE (text/compression)	1500	○			NUMBER OF VARIABLE CHARACTERS
Reserved (FOR VAaux)	138	○			
Reserved (FOR ECCTB)	21		○		
TOTAL		1,907	93	20	

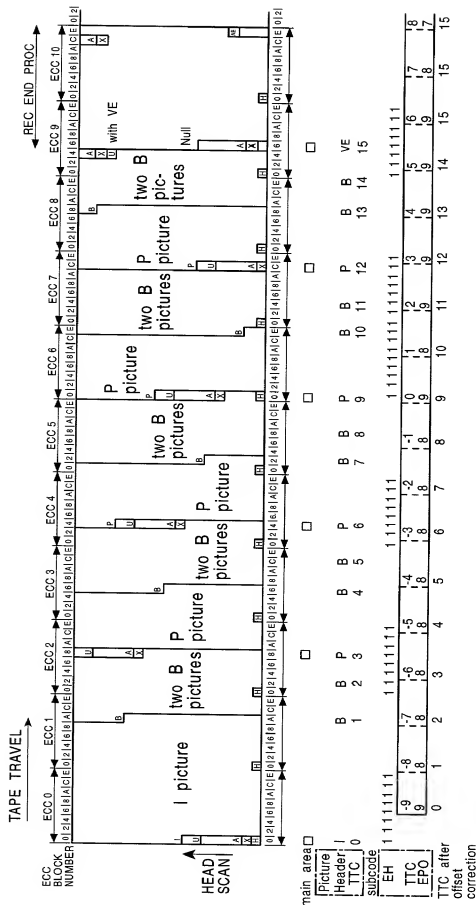
[illegible]

FIG. 36

